

Notice of Allowability

Application No.

09/800,382

Examiner

Kenneth Tang

Applicant(s)

OGUS ET AL.

Art Unit

2127

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/4/05.
2. ☒ The allowed claim(s) is/are 1-6 and 8-19; now renumbered as 1-18.
3. ☒ The drawings filed on 04 March 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 3/18/05.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Susan Murphy (Reg. No. 46,221) on 3/18/05.
3. Please amend the claims according to the email attachment disclosed on the following pages.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt
3/18/05


MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Requested by
Examiner 3/18/05
KT

Tang, Kenneth

From: Murphy, Susan C. (Woodcock Washburn) [smurphy@woodcock.com]
Sent: Friday, March 18, 2005 6:57 AM
To: Tang, Kenneth
Cc: Murphy, Susan C. (Woodcock Washburn)
Subject: 09/800382

Hi Examiner Tang,

I received authorization from the client for the attached Examiner's amendment. Thanks very much for your help with this case. I will be away from my desk this morning until about noon or so, but I will be around the rest of the afternoon and all weekend, in case you would like to reach me.

Regards,

Sue

Susan C. Murphy, Esq.
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This communication is confidential and may be attorney-client privileged and/or attorney work product. Should it be received by someone other than the intended recipient, kindly advise WWLLP either by telephone or by e-mail at "postmaster@woodcock.com" and destroy this message and all attachments. Thank you.

3/18/05

1. (Currently Amended) A computer-implemented method of scheduling a future event comprising:

receiving a first event data, the first event data including a first event and a time at which the first event is to occur;

creating a first data structure comprising a plurality of elements, each element associated with a time interval, the plurality of elements including at least a first element associated with a first time interval defined by a first start time and a first end time and a second element associated with a second time interval defined by a second start time and a second end time;

in response to determining that the time at which the first event is to occur falls within the first time interval, adding the first event to a list of events associated with the first element of the first data structure;

receiving a second event data including a second event and a time at which the second event is to occur;

in response to determining that the time at which the second event is to occur does not fall within any of the time intervals associated with the first data structure, creating a second data structure comprising at least a first element of the second data structure, the first element associated with a time interval encompassing the time at which the second event is to occur, the time interval of the first element of the second data structure comprising a summation of all time intervals of the plurality of elements of the first data structure; and

adding the second event to a list associated with the first element of said second data structure.

2. (Currently Amended) ~~The method of scheduling a future event~~ of claim 1, wherein said first data structure comprises an array.

3. (Currently Amended) ~~The method of scheduling a future event~~ of claim 1, wherein said second data structure comprises an array.

4. (Currently Amended) The method of claim 1, further comprising:

in response to determining that the time at which the second event is to occur falls within the second time interval, associating said second event with said second element of said first data structure.

5. (Previously Presented) The method of claim 4, wherein said act of associating said second event with said second element of said first data structure elements occurs after said second end time.

6. (Previously Presented) The method of claim 1, wherein said second end time is greater than said first end time.

7. (Cancelled)

8. (Currently Amended) The method of claim 1, wherein said first element comprises a list pointer, and wherein said adding the first event to the list of events act comprises:

adding to a the list associated with said first element a list element indicative of said first event.

9. (Previously Presented) The method of claim 8, wherein said list pointer comprises an empty list.

10. (Original) The method of claim 8, wherein said list comprises a doubly linked list.

11. (Previously Presented) The method of claim 1, further comprising the act of:

initiating the list of events associated with said first element; and
repeating said initiating act for events associated with said second element at a pre-determined time interval.

12. (Previously Presented) The method of claim 11, wherein said pre-determined time interval is a period of time from said first start time to said first end time.

13. (Previously Presented) The method of claim 1, wherein said first data structure comprises an array in which said first data structure elements are arranged in an order, and wherein said method further comprising the acts of:

setting a pointer to point to said first element of said first data structure elements, said first element comprising a beginning element in said array;

repeatedly advancing said pointer to a next element of said first data structure elements at a pre-determined time interval.

14. (Previously Presented) The method of claim 13, wherein said advancing act comprises:

wrapping said pointer to the beginning element in said order.

15. (Currently Amended) A computer-readable medium having computer-executable instructions ~~to perform the method of claim 1.~~ for:

receiving a first event data, the first event data including a first event and a time at which the first event is to occur;

creating a first data structure comprising a plurality of elements, each element associated with a time interval, the plurality of elements including at least a first element associated with a first time interval defined by a first start time and a first end time and a second element associated with a second time interval defined by a second start time and a second end time;

in response to determining that the time at which the first event is to occur falls within the first time interval, adding the first event to a list of events associated with the first element of the first data structure;

receiving a second event data including a second event and a time at which the second event is to occur;

in response to determining that the time at which the second event is to occur does not fall within any of the time intervals associated with the first data structure,

creating a second data structure comprising at least a first element of the second data structure, the first element associated with a time interval encompassing the time at which the second event is to occur, the time interval of the first element of the second data structure comprising a summation of all time intervals of the plurality of elements of the first data structure; and

adding the second event to a list associated with the first element of said second data structure.

16. (Currently Amended) A system for scheduling future events comprising:
a first data structure comprising a plurality of elements, each of the plurality of elements of the first data structure associated with a ~~period of time~~ interval defined by a start time and an end time, the plurality of elements of the first data structure comprising at least a first element associated with a first time interval defined by a first start time and a first end time and a second element associated with a second time interval defined by a second start time and a second end time;

a scheduling module which, in response to determining that a time at which a first event is to occur falls within the ~~first start time and the first end time~~ interval of the first element of the first data structure, creates a second data structure associated with the first element of the first data structure and adds the first event to the second data structure; and which in response to determining that a time at which a second event is to occur falls within the second time interval of the second element of the first data structure, ~~start time and the second end time~~, creates a third data structure associated with the second element of the first data structure and adds the second event to the third data structure; and

a fourth data structure which corresponds to a time duration subsequent to said first end time and said second end time, wherein said scheduling module receives a third event data including a third time at which the third event is to occur and associates said third event data with said fourth data structure, said third time not falling within any period of time associated with said first data structure.

17. (Original) The system of claim 16, wherein said first data structure comprises an array.

18. (Previously Presented) The system of claim 16, wherein each of said plurality of elements of said first data structure comprises a list pointer, and wherein said scheduling module adds said first event to a list pointed to by said first element.

19. (Previously Presented) The system of claim 18, wherein said list comprises a linked list.

20. (Cancelled)